The Software Quality Challenge

Watts S. Humphrey. Many aspects of our lives are governed by large, complex systems with increasingly complex software, and the safety, security, and reliability of these systems has become a major concern. As the software in today's systems grows larger, it has more defects, and these defects adversely affect the safety, security, and reliability of the systems. This article explains why the common test-and-fix software quality strategy is no longer adequate, and characterizes the properties of the quality strategy we must pursue to solve the software quality problem in the future.

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1. https://buildsecurityin.us-cert.gov/adm-bsi/1185-BSI.html